

Question No. 1. Multiple choice questions

1×20=20 Marks

1. According to Rittinger's Law, the energy required for size reduction is directly proportional to \_\_\_\_\_
- A. Crack length  
B. Surface area  
C. Stress at atomic bond  
D. Crushing strength
2. Which of the following is the primary objective of the evaporation process?
- A. Separation of solid from liquid  
B. Purification of product  
C. Drying of product  
D. Recovery of the solvent
3. Which part is NOT used in the construction of shell and tube heat exchanger?
- A. Distribution chamber  
B. Baffle plate  
C. Tube bundle  
D. Carrying Beam
4. Which of the mill primarily works on both the principles of interparticulate attrition and impact?
- A. Cutter mill  
B. Ball mill  
C. Edge runner mill  
D. End runner mill
5. Turbulent flow is also known as
- A. Diffused flow  
B. Streamline flow  
C. Viscous flow  
D. Laminar flow
6. Which evaporator is suitable for foam forming liquids?
- A. Multiple effect evaporator  
B. Horizontal tube evaporator  
C. Climbing film evaporator  
D. Falling film evaporator
7. Which of the following is a part of Bernoulli's theorem
- A. Electric energy  
B. Static energy  
C. Potential energy  
D. Heat energy
8. What is the expected product obtained through the process of distillation?
- A. Liquid residue  
B. Condensed vapours  
C. Dried solid  
D. Concentrated liquid
9. Which type of drying process is Not suitable for heat-sensitive materials?
- A. Drum dryer  
B. Freeze drying  
C. Spray drying  
D. Fluidized drying
10. Which mixing mechanism is involved in the fluidized bed system?
- A. Diffusion  
B. Sedimentation  
C. Convection  
D. Shear
11. Which is acts as a mechanical support for the filter cake and also responsible for collection of solids
- A. Feed  
B. Filter medium  
C. Funnel  
D. Filter aid
12. Which component of a centrifuge is responsible for creating centrifugal force?
- A. Rotor  
B. Sample chamber  
C. Motor  
D. Control panel  
E.
13. Which of the following material that can contain bond water during drying?
- A. Plastic  
B. Wood  
C. Glass  
D. Metal
14. What is the purpose of a baffled tank in the mixing process?
- A. To control the temperature  
B. To reduce the risk of contamination  
C. To increase the efficiency of mixing  
D. To prevent foaming in the mixture



